

## University of Groningen

### Finding the balance

Schnell, Ulrike

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## STELLINGEN

behorende bij het proefschrift:

### Finding the balance – EpCAM signaling in health and disease

Centrale	U
Medische	M
Bibliotheek	C
Groningen	G

- 1 | Since the number of cell-cell adhesion proteins identified as substrates for regulated intramembrane proteolysis is increasing, it is crucial to re-interpret immunohistological data and to consider signaling properties of proteolytic protein fragments. (*Cancer Res.* 2011, 71:303)
- 2 | Localization of EpCAM's intracellular domain has been introduced as a distinctive marker for epithelial cancers. However, inconsistent immunostaining results demand mRNA assessment and antibody specificity validation to address the cleavage hypothesis. (*BMC Cancer* 2010, 10:331; *PLoS ONE* 2010, 5:e14130)
- 3 | EpCAM and E-Cadherin are substrates of the same proteases. Therefore, loss of E-Cadherin-mediated cell-cell adhesion and cleavage-induced signaling may predominantly account for the metastatic potential and aggressiveness of thyroid cancer (*BMC Cancer* 2012, 12:523; *Cancer Res.* 1993, 53:4987).
- 4 | As an outcome of 3.8 billion years of evolution, nature provides the most genius models for the development of new and sustainable technologies and designs.
- 5 | Although basic research is the foundation of any applied research or commercial product, it is often met with incomprehension.
- 6 | Exosomes are the future for gene therapy and drug delivery across the blood-brain barrier.
- 7 | Following the diagnosis of Type 1 Diabetes and the initiation of insulin therapy, the "honeymoon phase" refers to the period in which the body's own insulin production still aids in blood glucose control. Since this is only temporal while diabetes progresses, "honeymoon" improperly implies that marriage is doomed to failure.
- 8 | Being critical towards data should always be prioritized above publishing; yet, it should not keep one from progressing.
- 9 | Overnight live-cell imaging experiments sometimes only lead to the conclusion that the terms "Autofocus" and "Out of focus" are as interchangeable as they sound.
- 10 | The feeling of being fully integrated in a foreign country's society requires the ability to communicate in the native language.
- 11 | Since the demand for organs exceeds availability, anyone that would embrace a donor organ in an emergency case should be willing to be a donor him-/herself.
- 12 | Raising children in multiple languages is often considered a big challenge. However, even in Europe, where many assume that bilingualism is rare, every country has at least one linguistic minority whose members are typically bilingual.
- 13 | The word "Anspecken" (to gain weight) as the antonym of "Abspecken" (to slim down) should be included in German dictionaries.
- 14 | The absence of time consciousness may constitute the greatest quality of childhood.